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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s (catalyst (1) group viii (1) silver (1) bismuth (1) rare earth)/lt
    105519 CATALYST/LT
    65368 GROUP VIII/LT
    5504 SILVER/LT
    3922 BISMUTH/LT
    10908 RARE EARTH/LT
L1      326 (CATALYST (L) GROUP VIII (L) SILVER (L) BISMUTH (L) RARE
EARTH)/
      LT
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```
=> s hydrogenation
L2      16722 HYDROGENATION
```

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=> s l1 and l2
L3      16 L1 AND L2
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=> d 1-16
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L3 ANSWER 1 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING

Full Text

INFORMATION INC. on STN

AN 2003:17853 ENCOMPAT;ENCOMPAT2

DN P200320134

TI Production of toluene derivatives comprises **hydrogenation** of benzaldehydes and/or benzyl alcohols with hydrogen using catalyst

comprising metal and/or corresponding (hydr)oxide or salt of
cobalt,
nickel and/or copper
IN BOTTKE N; FISCHER R; NOEBEL T; ROESCH M
PA BASF AG
PI WO 2003062174 20030731
DS AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN;
CO; CR;
CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR;
HU; ID;
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV;
MA; MD;
MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD;
SE; SG;
SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA;
ZM; ZW;
AT; BE; BG; CH; CY; CZ; DE; DK; EA; EE; ES; FI; FR; GB; GH; GM;
GR; HU;
IE; IT; KE; LS; LU; MC; MW; MZ; NL; OA; PT; SD; SE; SI; SK; SL;
SZ; TR;
TZ; UG; ZM; ZW
AI WO 2003-EP488 20030120
PRAI DE 2002-1002837 20020124
OS DERWENT 2003598739
LA German

L3 ANSWER 2 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text
INFORMATION INC. on STN
AN 2003:3918 ENCOMPAT2;ENCOMPAT2
DN P200304002
TI One-stage production of toluene compounds, useful as intermediates
for

pharmaceuticals, fine chemicals and plant protection agents,
comprises
catalytic **hydrogenation** of corresponding benzoic acid, ester or
anhydride

IN FISCHER R; GOETZ N; ROESCH M
PA BASF AG
PI WO 2002088046 20021107
DS AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN;
CO; CR;
CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR;
HU; ID;
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV;
MA; MD;
MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI;
SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM;
ZW; AT;
BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE; IT; KE;
LS; LU;
MC; MW; MZ; NL; OA; PT; SD; SE; SL; SZ; TR; TZ; UG; ZM; ZW
AI WO 2002-EP4486 20020424
PRAI DE 2001-1020911 20010427
OS DERWENT 2003047005
LA German

L3 ANSWER 3 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 2003:947 ENCOMPAT;ENCOMPAT2
DN P200300731
TI Catalyst for use in selective **hydrogenation** of unsaturated hydrocarbon
comprises platinum, palladium, nickel, ruthenium, cobalt or rhodium, rare earth metal(s) and bismuth loaded on a porous inorganic support
IN CUI Q; DAI W; GUO Y; LI H; MU W; PENG H; ZHU J
PA CUI Q; DAI W; GUO Y; LI H; MU W; PENG H; ZHU J
PI US 2002068843 20020606
AI US 2001-965868 20011001
PRAI CN 2000-124994 20000929
OS DERWENT 2002681333

L3 ANSWER 4 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 2002:8592 ENCOMPAT;ENCOMPAT2
DN P200212203
TI Selective **hydrogenation** of greater unsaturated hydrocarbons, employs mixed phase **hydrogenation** reactor which is located upstream of front depropanizer or front deethanizer
IN CHEN S; DAI W; GUO Y; LIAO L; MU W; PENG H; ZHU J
PA CHEN S; DAI W; GUO Y; LIAO L; MU W; PENG H; ZHU J
PI US 2002004622 20020110
AI US 2001-879489 20010613
PRAI CN 2000-109219 20000615
OS DERWENT 2002225875

L3 ANSWER 5 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 2001:11544 ENCOMPAT;ENCOMPAT2
DN P200116267
TI Reducing nitrates to nitrogen or ammonia in acidic effluents, by **hydrogenation** over metal catalyst, with preliminary neutralization to prevent formation of hydroxylamine
IN MARION P; ROSIER C; SEIGNEURIN A
PA RHODIA CHIM
PI FR 2803285 20010706
AI FR 1999-16753 19991230
PRAI FR 1999-16753 19991230
OS DERWENT 2001444097

L3 ANSWER 6 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 2000:333 ENCOMPAT;ENCOMPAT2
DN P200000857
TI **Hydrogenation** of sulfur containing feedstock

IN BERBEN P H; DIJKSTRA W; REESINK B H
PA ENGELHARD CORP
PI EP 974637 20000126
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT;
LU; LV;
MC; MK; NL; PT; RO; SE; SI
AI EP 1998-202466 19980722
PRAI EP 1998-202466 19980722
OS DERWENT 2000108395
LA English

L3 ANSWER 7 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 97:5868 ENCOMPAT;ENCOMPAT2
DN 9741557
TI Monomodal or polymodal catalyst support or catalyst - with narrow
pore
size distribution, high strength and high stability
IN BROECKER F J; DINGERDISSEN U; FLICK K; HAGEMeyer A; LAUTH G;
TRUEBENBACH P
PA BASF AG
PI EP 761307 970312
DS BE; CH; DE; FR; GB; LI; NL
AI EP 1996-114468 960910
PRAI DE 1995-1033486 950912
OS DERWENT 97156698
LA German

L3 ANSWER 8 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 85:1138 ENCOMPAT;ENCOMPAT2
DN 8510491U
TI NEW CRYSTALLINE GALLO-SILICATE(S) AND THEIR PROD. - AND USE OF
CATALYSTS
FOR HYDROCARBON CONVERSION REACTIONS
PA BRITISH PETROLEUM PLC
PI EP 130013
DS BE; DE; FR; GB; IT; NL
PRAI GB 1983-16168 830614
OS DERWENT 85007948

L3 ANSWER 9 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 85:1137 ENCOMPAT;ENCOMPAT2
DN 8510491T
TI NEW CRYSTALLINE GALLO-SILICATE(S) AND THEIR PROD. - AND USE OF
CATALYSTS
FOR HYDROCARBON CONVERSION REACTIONS
PA BRITISH PETROLEUM PLC
PI EP 130013
DS BE; DE; FR; GB; IT; NL
PRAI GB 1983-16168 830614
OS DERWENT 85007948

L3 ANSWER 10 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 83:8194 ENCOMPAT;ENCOMPAT2
DN 8352438
TI CYCLOALKANONE OR CYCLOALKANOL AMMOXIDATION - WITH MOLYBDATE
CATALYST TO
PRODUCE HETEROCYCLIC CPDS
PA STANDARD OIL CO OF OHIO
PI US 4379925 830412
PRAI US 1980-194638 801006
OS DERWENT 8341549K

L3 ANSWER 11 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 82:6264 ENCOMPAT;ENCOMPAT2
DN 8250066
TI STABLE TELLURIUM CONTG. SOLN. PREPN. FROM METALLIC TELLURIUM -
USED TO
PRODUCE ANTIMONY TELLURIUM OXIDE CATALYST FOR OXIDN. OF OLEFIN(S),
OXIDATIVE **HYDROGENATION** OR AMMOXIDATION
PA NITTO CHEM IND KK
PI GB 2073722 811021
PRAI JP 1980-30275 800312
OS DERWENT 8178260D

L3 ANSWER 12 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 81:5308 ENCOMPAT;ENCOMPAT2
DN 8141928
TI CATALYTIC INCINERATION OF SULPHUR CPDS. IN OFF-GASES - BY
HYDROGENATION
FOLLOWED BY OXIDN. ON SPECIFIED CATALYST
PA SOCIETE NATIONAL ELF AQUITAINE PROD
PI BE 888517 810817
PRAI FR 1980-9129 800423
OS DERWENT 8167974D

L3 ANSWER 13 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 79:1282 ENCOMPAT;ENCOMPAT2
DN 7911945
TI METAL FLUORIDE AND OXYFLUORIDE CPDS. PROD. - WITH LARGE EFFECTIVE
SURFACE
AREA BY FLUORINATION OF METAL OXIDE WITH FLUOROCARBON CPD.
PA EXXON RESEARCH + ENGINEERING CO
PI DE 2900854 790719
PRAI US 1978-869776 780116
OS DERWENT 7954842B

L3 ANSWER 14 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 78:4800 ENCOMPAT;ENCOMPAT2

DN 7850308U
TI STYRENE PREPN. FROM TOLUENE - BY OXIDN. TO BENZYL ACETATE OR
PROPIONATE,
CARBONYLATION, **HYDROGENATION** AND DEHYDRATION
PA EXXON RESEARCH + ENGINEERING CO
PI BE 854440 771110
PRAI US 1976-755245 761229
685057 760510
OS DERWENT 7781205Y

L3 ANSWER 15 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 78:4799 ENCOMPAT;ENCOMPAT2
DN 7850308S
TI STYRENE PREPN. FROM TOLUENE - BY OXIDN. TO BENZYL ACETATE OR
PROPIONATE,
CARBONYLATION, **HYDROGENATION** AND DEHYDRATION
PA EXXON RESEARCH + ENGINEERING CO
PI BE 854440 771110
PRAI US 1976-755245 761229
685057 760510
OS DERWENT 7781205Y

L3 ANSWER 16 OF 16 ENCOMPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
Full Text

INFORMATION INC. on STN
AN 78:361 ENCOMPAT;ENCOMPAT2
DN 7810530
TI COAL LIQUEFACTION BY CATALYTIC HYDROGENOLYSIS - USING CATALYTIC
METAL
ELECTRODEPOSITED ON THE COAL PARTICLES
PA BATTELLE MEM INST
PI US 4067795 780110
PRAI US 1976-695988 760614
OS DERWENT 7808099A